

Sheet 1 of 2

FORM PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION PURSUANT TO
37 CFR §1.97 & 1.98**

Docket Number:	Serial Number:
4015-984	09/915,896
Applicant:	
Paul W. Dent	
Filing Date:	Group:
December 5, 2001	2681

U. S. PATENT DOCUMENTS

Examiner Initial	Patent No.	Date	Name	Class	Subcl	Filing Date If Approp.
W	A 5,481,572	1996	Skold et al.			
W	B 5,499,272	1996	Bottomley			
W	C 5,594,941	1997	Dent			
W	D 5,619,503	1997	Dent			
W	E 5,631,898	1997	Dent			
W	F 5,642,358	1997	Dent			
W	G 5,724,666	1998	Dent			
W	H 5,812,935	1998	Kay			
W	I 5,812,947	1998	Dent			
W	J 5,845,199	1998	Longshore			
W	K 5,848,060	1998	Dent			
W	L 5,867,791	1999	Chambert			
W	M 5,883,888	1999	St-Pierre			

Filing Date
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DEC 20 2001

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FOREIGN PATENT DOCUMENTS

Patent No.	Date	Name	Class	Subcl	Translation Yes No

OTHER DOCUMENTS (including author, title, date, pages, etc.)

W	1	Initial Estimation of Communication Efficiency of Indoor Wireless Channels, G. J.
W		Foschini and R. A. Valenzuela, Wireless Networks 3, pp. 141-154, 1997; Lucent
W		Technologies, Bell Labs Innovations, Crawford Hill Laboratory, Holmdel, NJ 07733, USA
W	2	On Limits of Wireless Communications in a Fading Environment When Using
W		Multiple Antennas, G. J. Foschini and M.J. Gans, Wireless Personal
W		Communications, Vol. 6 (No.3), pp. 311-335, Kluwer Academic Publishers,
W		March, 1998; Lucent Technologies, Bell Labs Innovations, Crawford Hill
W		Laboratory - R137, 791 Holmdel-Keyport Road, Holmdel, NJ 07733-0400, USA



Sheet 2 of 2

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U. S. PATENT DOCUMENTS

Examiner Initial	Patent No.	Date	Name	Class	Subcl	Filing Date If Approp.
N	N 5,909,460	1999	Dent			
N	O 5,930,248	1999	Langlet et al.			
N	P 5,940,742	1999	Dent			
N	Q 5,963,874	1999	Mahler			
N	R 5,991,282	1999	Langlet et al.			
N	S 6,006,075	1999	Smith et al.			
N	T 6,081,566	2000	Molnar et al.			
N	U 6,088,593	2000	Dent			
N	V 6,104,933	2000	Frodigh et al.			

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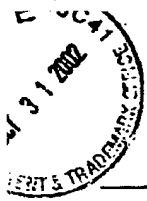
EXAMINER

Marklow

DATE CONSIDERED

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation not in conformance and not considered. Include copy of this form with next communication to the applicant.



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INFORMATION DISCLOSURE CITATION
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37 CFR §1.97 & 1.98

Docket Number:	Serial Number:
4015-984	09/915896
Applicant:	
ERICSSON INC	
Filing Date:	Group:
July 26, 2001	2681

U.S. PATENT DOCUMENTS

Examiner						Filing Date	
Initial	Patent No.	Date	Name	Class	Subcl	If Approp.	
<i>M</i>	A 6144711	2000	Pollack Michael A et al				

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						Translation	
	Patent No.	Date	Name	Class	Subcl	Yes	No
<i>M</i>	B EP1087545	2001	Univ Singapore				

OTHER DOCUMENTS (including author, title, date, pages, et.)

EXAMINER

Markham

DATE CONSIDERED

08/24/03

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37 CFR §1.97 & 1.98

Docket Number:	Serial Number:
4015-984	09/915896
Applicant:	
DENT	
Filing Date:	Group:
July 26, 2001	2684

U. S. PATENT DOCUMENTS

Examiner				Filing Date		
Initial	Patent No.	Date	Name	Class	Subcl	If Approp.
M	A 6473467	2002	Wallace			
M	B 6434366	2002	Harrison			

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FOREIGN PATENT DOCUMENTS

				Translation			
Patent No.	Date	Name	Class	Subcl	Yes	No	

OTHER DOCUMENTS (including author, title, date, pages, etc.)

EXAMINER

Nick Corcoran

DATE CONSIDERED

02/09/2004

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Docket Number:	Serial Number:
4015-984	09/915,896
Applicant:	
Dent, Paul W.	
Filing Date:	Group:
July 26, 2001	2684

U. S. PATENT DOCUMENTS

Examiner Initial	Patent No.	Date	Name	Class	Subcl	Filing Date	If Approp.
<i>W</i>	A 6067324	2000	Harrison, Robert Mark				
<i>W</i>	B 4995057	1991	Chung, Hong Y				
<i>W</i>	C 5887027	1999	Cohen, Herbert B et al				

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	Patent No.	Date	Name	Class	Subcl	Translation	
						Yes	No
<i>W</i>	D WO 0135548	2001	Arraycomm Inc				
<i>W</i>	E WO 9809381	1998	University Leland Stanford Jr				
<i>W</i>	F WO 9837671	1998	Globespan Technologies Inc				
<i>W</i>	G WO 0197474	2001	Mitsubishi Electric Corp				
<i>W</i>	H EP 1067710	2001	CIT Alcatel				
<i>W</i>	I EP 1207645	2002	Lucent Technologies Inc			DEC 11 2003	
<i>W</i>	J EP 0936781	1999	CIT Alcatel				
<i>W</i>	K EP 1075122	2001	Mitsubishi Electric Inf Tech			Technology Center 2600	
<i>W</i>	L WO 0199453	2001	Matsushita Electric Ind Co Ltd				
<i>A</i>	M WO 9921375	1999	Ericsson Telefon AB				

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<i>W</i>	N	Ying-Chang, Liang et al: "Transmit Antenna Array Techniques for Cellular CDMA Systems" Personal, Indoor and Mobile Radio Communications, 1998. The Ninth IEEE International Symposium on Boston, MA, USA, 8-11 Sept. 1998, New York, NY, USA < IEEE, US, 8 September 1998, pages 1396-1400, XP010314608 ISBN: 0-7803-4872-9
<i>W</i>	O	Kawakami E et al: "Multi-Stage Interference Canceller Systems With Accurate Radio Channel Estimation Under Fading Environment" 1997 IEEE 6 th International Conference on Universal Personal Communication Record. San Diego, 12-16 Oct. 1997, IEEE International Conference on Universal Personal Communications, New York, IEEE, US, vol. 2 conf. 6, 12 October 1997, pages 475-479, XP010248754 ISBN: 0-7803-3777-8

EXAMINER

Nick Corsaro

DATE CONSIDERED

02/09/04

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